Title (en)
  THERMAL TREATMENT OF BIOMASS

Title (de)
  THERMISCHE BEHANDLUNG VON BIOMASSE

Title (fr)
  TRAITEMENT THERMIQUE DE BIOMASSE

Publication
  **EP 2300560 B1 20140312 (EN)**

Application
  **EP 09746074 A 20090514**

Priority
  • GB 2009001225 W 20090514
  • GB 0808739 A 20080514

Abstract (en)
  [origin: WO2009138757A2] A biomass pyrolysis process is provided in which biomass feedstock is mixed with a heat carrier. The heat carrier at least partly comprises char. The ratio by weight of biomass to char is in the range 1:1 to 1:20. The process may be carried out by in a screw/auger pyrolysis reactor in which the solid feedstock components are conveyed along the reactor by a first screw. A second screw conveys at least a portion of the solid products of the biomass pyrolysis back to a heat transfer medium input port. Thus, the heat transfer medium includes char from the biomass pyrolysis.

IPC 8 full level
  **C10B 7/10** (2006.01); **C10B 49/16** (2006.01); **C10B 51/00** (2006.01); **C10B 53/02** (2006.01); **C10J 3/20** (2006.01); **C10J 3/26** (2006.01); **C10J 3/66** (2006.01)

CPC (source: EP GB US)
  **C10B 7/10** (2013.01 - EP US); **C10B 49/16** (2013.01 - EP GB US); **C10B 51/00** (2013.01 - EP US); **C10B 53/02** (2013.01 - EP US); **C10J 3/007** (2013.01 - EP US); **C10J 3/20** (2013.01 - EP US); **C10J 3/26** (2013.01 - EP US); **C10J 3/66** (2013.01 - EP US); C10J 2200/09 (2013.01 - EP US); C10J 2300/0916 (2013.01 - EP US); C10J 2300/094 (2013.01 - EP US); C10J 2300/0956 (2013.01 - EP US); Y02E 50/10 (2013.01 - EP US); Y02P 20/145 (2015.11 - EP US)

Cited by
  CN113801668A

Designated contracting state (EPC)
  AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
  **WO 2009138757 A2 20091119**; **WO 2009138757 A3 20100415**; CY 1115165 T1 20161214; DK 2300560 T3 20140519; EP 2300560 A2 20110330; EP 2300560 B1 20140312; EP 2653523 A2 20131023; EP 2653523 A3 20131204; EP 2653523 B1 20151021; ES 2461895 T3 20140521; ES 2555907 T3 20160111; GB 0808739 D0 20080618; GB 0908316 D0 20090624; GB 2460156 A 20091125; HR P20140518 T1 20140718; PL 2300560 T3 20140829; PT 2300560 E 20140513; SI 2300560 T1 20140731; US 2011067991 A1 20110324; US 2014331556 A1 20141113; US 8835704 B2 20140916; US 9663733 B2 20170530

DOCDB simple family (application)
  **GB 2009001225 W 20090514**; CY 141100353 T 20140519; DK 09746074 T 20090514; EP 09746074 A 20090514; EP 13175615 A 20090514; ES 09746074 T 20090514; ES 13175615 T 20090514; GB 0808739 A 20080514; GB 0908316 A 20090514; HR P20140518 T 20140604; PL 09746074 T 20090514; PT 09746074 T 20090514; SI 200930951 T 20090514; US 201414339111 A 20140723; US 99265409 A 20090514